

11/06/98  
1050 U.S. P.

Please type a plus sign (+) inside this box → ☒

Approved for use through 09/30/00. OMB 0651-0028  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Information unless it displays a valid OMB control number

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	AST-4B-PCT-US	Total Pages	
	First Named Inventor or Application Identifier			
	Daniel Armstrong			
	Express Mail Label No.	EL069250572 US		

<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>	<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form <small>(Submit an original, and a duplicate for fee processing)</small> 2. <input checked="" type="checkbox"/> Specification <small>[Total Pages 65]</small> <small>(preferred arrangement set forth below)</small> - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) <small>[Total Sheets 4]</small> 4. Oath or Declaration <small>[Total Pages 2]</small> a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 17 completed)</small> <small>[Note Box 5 below]</small> i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	6. <input type="checkbox"/> Microfiche Computer Program (Appendix) 7. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small> a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
<b>ACCOMPANYING APPLICATION PARTS</b>	
8. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small> 10. <input type="checkbox"/> English Translation Document (if applicable) 11. <input checked="" type="checkbox"/> Information Disclosure <input checked="" type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations 12. <input checked="" type="checkbox"/> Preliminary Amendment 13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small> 14. <input checked="" type="checkbox"/> Small Entity <input checked="" type="checkbox"/> Statement filed in prior application, Statement(s) Status still proper and desired 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small> 16. <input type="checkbox"/> Other:	

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:  
☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No: 08/851,485

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

NAME	Donald C. Lucas				
	Bierman, Muserlian and Lucas				
ADDRESS	600 Third Avenue				
CITY	New York	STATE	New York	ZIP CODE	10016
COUNTRY	US	TELEPHONE	212-661-8000	FAX	212-661-8002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

"Express Mail" mailing label  
 number— EL069250572 US  
 Date of Deposit NOV. 6, 1998  
 I hereby certify that this paper or fee is  
 being deposited with the United States Postal  
 Service "Express Mail Post Office to Addressee"  
 service under 27 CFR 1.10 on the date indicated  
 above and is addressed to the Commissioner  
 of Patents and Trademarks, Washington, D.C.  
 20231.  
 NOV. 6, 1998  
 S. Nakmuczyj  
 (Signature of person mailing paper or fee)

<h1 style="margin: 0;">FEE TRANSMITTAL</h1>		<b>Complete If Known</b>	
		Application Number	
		Filing Date	
		First Named Inventor <span style="float: right;">Daniel Armstrong</span>	
		Group Art Unit	
		Examiner Name	
TOTAL AMOUNT OF PAYMENT (\$)		483.00	
		Attorney Docket Number <span style="float: right;">AST-4B-PCT-US</span>	

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																				
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <span style="float: right;">02-2275</span></p> <p>Deposit Account Name <span style="float: right;">Bierman, Muserlian and Lucas</span></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17    <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Making of the Notice of Allowance, 37 CFR 1.311(b)</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> Check    <input type="checkbox"/> Money Order    <input type="checkbox"/> Other</p>	<h3>3. ADDITIONAL FEES</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>106</td><td>130</td><td>206</td><td>66</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>90</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,480</td><td>147</td><td>2,480</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>900</td><td>112</td><td>900</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,780</td><td>113</td><td>1,780</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for response within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>185</td><td>Extension for response within second month</td><td></td></tr> <tr><td>117</td><td>930</td><td>217</td><td>485</td><td>Extension for response within third month</td><td></td></tr> <tr><td>118</td><td>1,470</td><td>218</td><td>735</td><td>Extension for response within fourth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>180</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,470</td><td>138</td><td>1,470</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>85</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141</td><td>1,290</td><td>241</td><td>645</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142</td><td>1,290</td><td>242</td><td>645</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>650</td><td>244</td><td>325</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>230</td><td>126</td><td>230</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Resorting each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>770</td><td>246</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>148</td><td>770</td><td>248</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td></tr> <tr><td colspan="5">Other fee (specify) _____</td></tr> </tbody> </table>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	106	130	206	66	Surcharge - late filing fee or oath		127	90	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,480	147	2,480	For filing a request for reexamination		112	900	112	900	Requesting publication of SIR prior to Examiner action		113	1,780	113	1,780	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for response within first month		116	380	216	185	Extension for response within second month		117	930	217	485	Extension for response within third month		118	1,470	218	735	Extension for response within fourth month		119	300	219	150	Notice of Appeal		120	300	220	180	Filing a brief in support of an appeal		121	280	221	130	Request for oral hearing		138	1,470	138	1,470	Petition to institute a public use proceeding		140	110	240	85	Petition to revive unavoidably abandoned application		141	1,290	241	645	Petition to revive unintentionally abandoned application		142	1,290	242	645	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	650	244	325	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	230	126	230	Submission of Information Disclosure Stmt		581	40	581	40	Resorting each patent assignment per property (times number of properties)		146	770	246	385	Filing a submission after final rejection (37 CFR 1.129(a))		148	770	248	385	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____					Other fee (specify) _____				
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																		
106	130	206	66	Surcharge - late filing fee or oath																																																																																																																																																																	
127	90	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																	
139	130	139	130	Non-English specification																																																																																																																																																																	
147	2,480	147	2,480	For filing a request for reexamination																																																																																																																																																																	
112	900	112	900	Requesting publication of SIR prior to Examiner action																																																																																																																																																																	
113	1,780	113	1,780	Requesting publication of SIR after Examiner action																																																																																																																																																																	
115	110	215	55	Extension for response within first month																																																																																																																																																																	
116	380	216	185	Extension for response within second month																																																																																																																																																																	
117	930	217	485	Extension for response within third month																																																																																																																																																																	
118	1,470	218	735	Extension for response within fourth month																																																																																																																																																																	
119	300	219	150	Notice of Appeal																																																																																																																																																																	
120	300	220	180	Filing a brief in support of an appeal																																																																																																																																																																	
121	280	221	130	Request for oral hearing																																																																																																																																																																	
138	1,470	138	1,470	Petition to institute a public use proceeding																																																																																																																																																																	
140	110	240	85	Petition to revive unavoidably abandoned application																																																																																																																																																																	
141	1,290	241	645	Petition to revive unintentionally abandoned application																																																																																																																																																																	
142	1,290	242	645	Utility issue fee (or reissue)																																																																																																																																																																	
143	440	243	220	Design issue fee																																																																																																																																																																	
144	650	244	325	Plant issue fee																																																																																																																																																																	
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																	
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																	
126	230	126	230	Submission of Information Disclosure Stmt																																																																																																																																																																	
581	40	581	40	Resorting each patent assignment per property (times number of properties)																																																																																																																																																																	
146	770	246	385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																	
148	770	248	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																	
Other fee (specify) _____																																																																																																																																																																					
Other fee (specify) _____																																																																																																																																																																					
<h3>1. FILING FEE</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>770</td><td>201</td><td>385</td><td>Utility filing fee</td><td>395.00</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>530</td><td>207</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>770</td><td>208</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> <p style="text-align: right;">SUBTOTAL (1) (\$)</p> <p>395.00</p>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	101	770	201	385	Utility filing fee	395.00	106	320	206	160	Design filing fee		107	530	207	265	Plant filing fee		108	770	208	385	Reissue filing fee		114	150	214	75	Provisional filing fee		<h3>2. CLAIMS</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>24</td><td>-20 =</td><td>4</td><td>X 22 = 88.00</td></tr> <tr><td>Independent Claims</td><td>2 - 3 =</td><td>0</td><td>X =</td></tr> <tr><td>Multiple Dependent Claims</td><td></td><td></td><td>X =</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>22</td><td>203</td><td>11</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>280</td><td>204</td><td>130</td><td>Multiple dependent claim</td><td></td></tr> <tr><td>109</td><td>80</td><td>209</td><td>40</td><td>Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>22</td><td>210</td><td>11</td><td>Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table> <p style="text-align: right;">SUBTOTAL (2) (\$)</p> <p>88.00</p>	Total Claims	Extra	Fee from below	Fee Paid	24	-20 =	4	X 22 = 88.00	Independent Claims	2 - 3 =	0	X =	Multiple Dependent Claims			X =	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103	22	203	11	Claims in excess of 20		102	80	202	40	Independent claims in excess of 3		104	280	204	130	Multiple dependent claim		109	80	209	40	Reissue independent claims over original patent		110	22	210	11	Reissue claims in excess of 20 and over original patent																																																																																	
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																		
101	770	201	385	Utility filing fee	395.00																																																																																																																																																																
106	320	206	160	Design filing fee																																																																																																																																																																	
107	530	207	265	Plant filing fee																																																																																																																																																																	
108	770	208	385	Reissue filing fee																																																																																																																																																																	
114	150	214	75	Provisional filing fee																																																																																																																																																																	
Total Claims	Extra	Fee from below	Fee Paid																																																																																																																																																																		
24	-20 =	4	X 22 = 88.00																																																																																																																																																																		
Independent Claims	2 - 3 =	0	X =																																																																																																																																																																		
Multiple Dependent Claims			X =																																																																																																																																																																		
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																		
103	22	203	11	Claims in excess of 20																																																																																																																																																																	
102	80	202	40	Independent claims in excess of 3																																																																																																																																																																	
104	280	204	130	Multiple dependent claim																																																																																																																																																																	
109	80	209	40	Reissue independent claims over original patent																																																																																																																																																																	
110	22	210	11	Reissue claims in excess of 20 and over original patent																																																																																																																																																																	
SUBTOTAL (3) (\$)																																																																																																																																																																					

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		Donald C. Lucas		Reg. Number	31,275
Signature		Date	11-6-98	Deposit Account User ID	02-2275